

SECTION 81

MONUMENTS

Monuments shall conform to Section 81 of the Caltrans Standard Specifications and these City Standard Specifications.

81-1.01 Description. - This work shall include furnishing and installing monuments.

81-1.02 Materials. - Survey monuments shall be portland cement concrete structures with brass discs. Concrete shall be "Class B" conforming to Section 90, "Portland Cement Concrete." The maximum aggregate size used shall be 3/4-inch.

Unless otherwise specified in the special provisions, survey marker discs shall be supplied by Contractor and shall be leaded red or semi-red brass conforming to ASTM Designation: B 584-88, Copper Alloy UNS No. C84400. The disc shall be 2-1/2 inches in diameter and not less than 2-1/2 inches long.

Mortar shall be "Class 1" as specified in Section 51-1.135, "Mortar."

Delete references to "Type D" from Section 81-1.02 of the Caltrans Standard Specifications.

The materials used in the construction of survey monuments shall conform to, and be tested for, the physical and composition requirements in accordance with the referenced ASTM Designation, or referenced specification sections.

81-1.03 Construction. - The brass disc shall be imbedded in the fresh concrete and centered within the cross ties of the survey point. The finished survey monument shall be cured and protected for such time as the Engineer may direct.

81-1.04 Monument Cases. - Where called for, monument cases shall be installed over new or existing monuments in accordance with the details as shown on the plans. The finished monument case shall be flush with the surrounding area and shall be secured by a concrete or mortar collar.

81-1.06 Payment. - The contract unit prices paid for survey monuments shall include brass discs unless otherwise specified in the specified provisions. The method of payment for monument cases is same as that provided for survey monuments.